16
O
‖13 12
G1～P～G1 1 2 C 3 O 7 8═O 11
14   C   C
G1   C 9
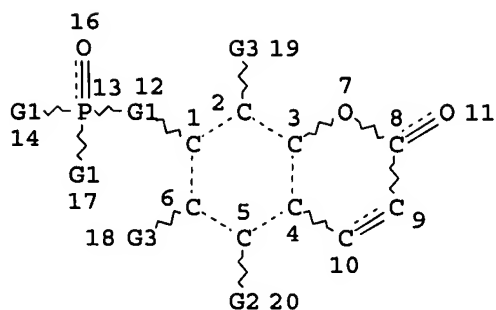17   6 5   4   10
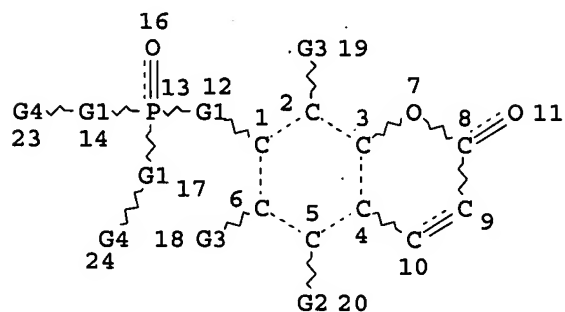18 G3 C C C
        C
     G2 20

G3 19

O～C
@21 22

VAR G1=O/S
VAR G2=H/21
VAR G3=X/H
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   21

STEREO ATTRIBUTES: NONE

```
=> d sia l7
L7 HAS NO ANSWERS
L7                    STR
```

16
O
‖13 12
G4～G1～P～G1 1 2 C 3 O 7 8═O 11
23 14   C   C
G1   C 9
17   6 5   4   10
G4 18 G3 C C C
24   C
        G2 20

G3 19

O～C
@21 22

VAR G1=O/S
VAR G2=H/21
VAR G3=X/H
VAR G4=ME/ET/N-PR/I-PR
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
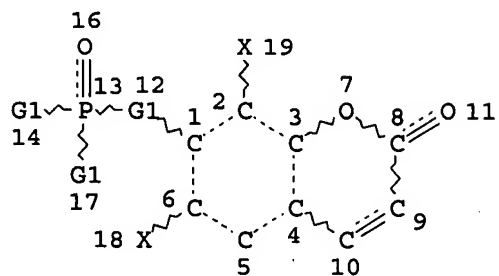
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   23

STEREO ATTRIBUTES: NONE

=> d sia l1
L1 HAS NO ANSWERS
L1   STR

```
      16
      O                X 19
      ‖ 13 12            ⌇          7
G1~P~G1    1  2.C.   3   O   8...O 11
14        C              C
         ⌇               ⌇
        G1
        17    6 .C.        .C.
   18 X~    C'   4  C==C 9
          5       10
```

VAR G1=O/S
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS   18

STEREO ATTRIBUTES: NONE

=>

```
L2                 0 S L1
L3                 4 S L1 FUL

       FILE 'CAPLUS' ENTERED AT 14:45:24 ON 22 DEC 2006
L4                38 S L3

       FILE 'REGISTRY' ENTERED AT 14:45:38 ON 22 DEC 2006
L5                   STR L1
L6                14 S L5
L7                   STR L5
L8                 1 S L7
L9                26 S L7 FUL

       FILE 'CAPLUS' ENTERED AT 15:04:52 ON 22 DEC 2006
L10              108 S L9
L11          2959748 S MEASUR?
L12          2183075 S ACTIVITY
L13               15 S ORGANOPHOSPHATASE?
L14           131467 S PHOSPHATASE?
L15                4 S L10 AND L14

       FILE 'REGISTRY' ENTERED AT 15:18:08 ON 22 DEC 2006
L16                  STR
L17                1 S L16
L18                  STR L16,
L19                0 S L18
L20                4 S L18 FUL
L21                  STR
L22                4 S L21
L23               46 S L21 FUL
L24                  STR L21
L25               27 SEARCH L24   SUB=L23 FUL

=> d sia l24
L24 HAS NO ANSWERS
L24                  STR
```
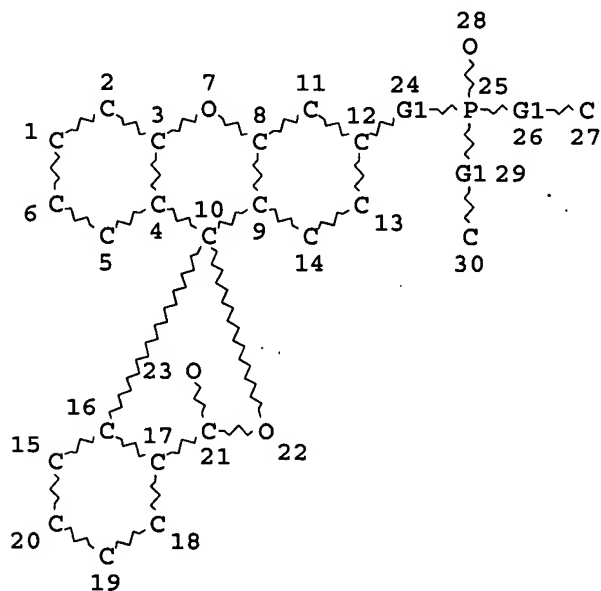
```
VAR G1=O/S
NODE ATTRIBUTES:
NSPEC    IS RC     AT  27
NSPEC    IS RC     AT  30
DEFAULT MLEVEL IS ATOM
```

2003:220003   Document No. 138:381255   Enzymatic Profiling System in a
     Small-Molecule Microarray.   Zhu, Qing; Uttamchandani, Mahesh; Li, Dongbo;
     Lesaicherre, Marie L.; Yao, Shao Q. (Departments of Chemistry and
     Biological Sciences, National University of Singapore, Singapore, 117543,
     Singapore).   Organic Letters, 5(8), 1257-1260 (English) 2003.   CODEN:
     ORLEF7.   ISSN: 1523-7060.   OTHER SOURCES: CASREACT 138:381255.   Publisher:
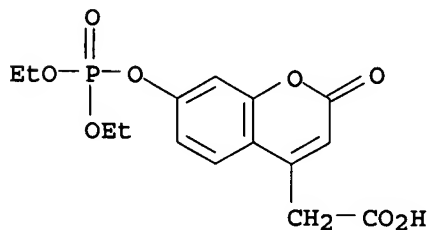   American Chemical Society.
AB   We have developed a microarray-based strategy for detection of three major
     classes of hydrolytic enzymes on the basis of their catalytic activities.
     This enables the sensitive detection of proteins not merely by their
     bindings but rather by their enzymic activities.   This may provide a
     valuable tool for screening, identification, and characterization of new
     enzymes in a high-throughput fashion.
IT   525579-03-7P
     RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
     BIOL (Biological study); PREP (Preparation)
        (enzymic profiling system in small-mol. microarray)
RN   525579-03-7   CAPLUS
CN   2H-1-Benzopyran-4-acetic acid, 7-[(diethoxyphosphinyl)oxy]-2-oxo- (9CI)
     (CA INDEX NAME)

IT   525579-00-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (enzymic profiling system in small-mol. microarray)
RN   525579-00-4   CAPLUS
CN   2H-1-Benzopyran-4-acetic acid, 7-[(diethoxyphosphinyl)oxy]-2-oxo-, methyl
     ester (9CI)   (CA INDEX NAME)